

## 5506UE Multi-Conductor - Commercial Applications



For more Information  
please call

1-800-Belden1



### General Description:

22 AWG Bare copper conductors, PP insulation, PVC jacket with ripcord. Sequential footage marking every two feet.

### Usage (Overall)

**Suitable Applications:** Security Systems, Intercom/PA Systems, Sound/Audio Systems, Power Limited Controls, and Single Line Telephone.

### Physical Characteristics (Overall)

#### Conductor

**AWG:**

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 8            | 22  | 7x30      | BC - Bare Copper   |

**Total Number of Conductors:** 8

#### Insulation

**Insulation Material:**

| Insulation Material | Wall Thickness (mm) |
|---------------------|---------------------|
| PP - Polypropylene  | 0.203               |

#### Outer Shield

**Outer Shield Material:**

| Outer Shield Material |
|-----------------------|
| Unshielded            |

#### Outer Jacket

**Outer Jacket Material:**

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

**Outer Jacket Ripcord:** Yes

#### Overall Cable

**Overall Cabling Lay Length & Direction:**

| Length (mm) | Twists (twist/m) |
|-------------|------------------|
| 69.850      | 14.3183          |

**Overall Cabling Color Code Chart:**

| Number | Color  |
|--------|--------|
| 1      | Black  |
| 2      | Red    |
| 3      | White  |
| 4      | Green  |
| 5      | Brown  |
| 6      | Blue   |
| 7      | Orange |
| 8      | Yellow |

**Overall Nominal Diameter:** 4.648 mm

### Mechanical Characteristics (Overall)

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|                                   |                |
|-----------------------------------|----------------|
| Operating Temperature Range:      | -20°C To +75°C |
| UL Temperature Rating:            | 75°C           |
| Bulk Cable Weight:                | 37.205 Kg/Km   |
| Max. Recommended Pulling Tension: | 323.829 N      |
| Min. Bend Radius/Minor Axis:      | 44.450 mm      |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | CMR        |
| NEC Articles:                         | 800        |
| CEC/C(UL) Specification:              | CMG        |
| EU CE Mark:                           | Yes        |
| EU Directive 2000/53/EC (ELV):        | Yes        |
| EU Directive 2002/95/EC (RoHS):       | Yes        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005 |
| EU Directive 2002/96/EC (WEEE):       | Yes        |
| EU Directive 2003/11/EC (BFR):        | Yes        |
| CA Prop 65 (CJ for Wire & Cable):     | Yes        |
| MII Order #39 (China RoHS):           | Yes        |

#### Flame Test

|                   |                       |
|-------------------|-----------------------|
| UL Flame Test:    | UL1666 Vertical Shaft |
| C(UL) Flame Test: | FT4                   |

#### Plenum/Non-Plenum

|                |        |
|----------------|--------|
| Plenum (Y/N):  | No     |
| Plenum Number: | 6506UE |

### Surface Printing (Overall)

#### Electrical Characteristics (Overall)

##### Nom. Capacitance Conductor to Conductor:

|                    |
|--------------------|
| Capacitance (pF/m) |
| 55.777             |

##### Nom. Conductor DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 53.1522             |

##### Max. Operating Voltage - UL:

|           |
|-----------|
| Voltage   |
| 300 V RMS |

##### Max. Recommended Current:

|                             |
|-----------------------------|
| Current                     |
| 2 Amps per conductor @ 25°C |

### Put Ups and Colors:

| Item #          | Putup  | Ship Weight | Color | Notes | Item Desc      |
|-----------------|--------|-------------|-------|-------|----------------|
| 5506UE 008U1000 | 305 MT | 13.154 KG   | GRAY  |       | 8 #22 PP FRPVC |
| 5506UE 0081000  | 305 MT | 13.608 KG   | GRAY  | C     | 8 #22 PP FRPVC |

#### Notes:

C = CRATE REEL PUT-UP.

### Test Reports

**a) UL**

- i) UL Test Reports are available on-line through the UL Client Document Access web portal.
- ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

**b) CSA**

- i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
- ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

\* other test data may be available if requested at time of order.

Revision Number: 2    Revision Date: 06-18-2010

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